

P/N: 82503-0201

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Imaging and optical data		
Infrared resolution	464 × 348 pixels	
UltraMax (super-resolution) ¹	Yes	
NETD	<30 mK @ +30°C (+86°F)	
Field of view	42° × 32°	
Minimum focus distance	0.15 m (0.49 ft.)	
Minimum focus distance with MSX	0.65 m (2.13 ft.)	
Focal length	10 mm (0.39 in.)	
Spatial resolution (IFOV)	1.66 mrad/pixel	
Available extra lenses	 24° (AutoCal) 14° (AutoCal) 6° (service calibration required) 	
Lens identification	Automatic	
f number	1.1	
Image frequency	30 Hz	
Focus	 Continuous LDM One-shot LDM One-shot contrast Manual 	
Field of view match	Yes	
Digital zoom	1–6× continuous	
Detector data		
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 µm	
Detector pitch	17 μm	
Image presentation		
Resolution (display)	640 × 480 pixels (VGA)	
Surface brightness (cd/m ²)	400	
Screen size	4 in.	

1. Not supported when using macro.





P/N: 82503-0201

Image presentation		
Viewing angle	80°	
Color depth (bits)	24	
Aspect ratio	4:3	
Auto-rotation	Yes	
Touchscreen	Optically bonded PCAP	
Display technology	IPS	
Cover glass material	Dragontrail®	
Programmable buttons	2	
Viewfinder	Yes	
Image adjustment	 Automatic Automatic maximum Automatic minimum Manual 	
Image presentation modes		
Infrared image	Yes	
Visual image	Yes	
MSX	Yes	
Picture in picture	Resizable and movable	
Gallery	Yes	
Measurement		
Camera temperature range	 -20 to 120°C (-4 to 248°F) 0 to 650°C (32 to 1202°F) 300 to 1500°C (572 to 2732°F) 	
Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)	 Range -20 to 120°C (-4 to 248°F): -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F) 100 to 120°C (212 to 248°F): ±2% Range 0 to 650°C (32 to 1202°F): 	
	 nange 0 to 050 °C (32 to 1202 °F): 0 to 100°C (32 to 212°F): ±2°C (±3.6°F) 100 to 650°C (212 to 1202°F): ±2% Range 300 to 1500°C (572 to 2732°F): ±2% 	
Inspection mode		
FLIR Inspection route	Enabled in the camera	
Measurement analysis		
Spotmeter	3 in live mode	
Area	3 in live mode	
Automatic hot/cold detection	Automatic maximum/minimum markers within area	
Measurement presets	 No measurements Center spot Hot spot Cold spot User preset 1 User preset 2 	
Difference temperature	Yes	
Reference temperature	Yes	
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list	



P/N: 82503-0201

Measurement analysis		
Measurement corrections	Yes	
External optics/windows correction	Yes	
Alarm		
Color alarm (isotherm)	 Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation 	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function	
Set-up		
Color palettes	 Arctic White hot Black hot Iron Lava Rainbow Rainbow HC 	
Setup commands	Local adaptation of units, language, date, and time formats	
Languages	21	
Service functions		
Camera software update	Using USB cable or SD card	
Storage of images		
Storage media	Removable memory: SD card	
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)	
Remote control operation	Using USB cable or Wi-Fi	
Image file format	Standard JPEG, measurement data included. Infrared-only mode.	
Image annotations		
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video	
Text	Text from predefined list or soft keyboard on touchscreen	
Visual image annotation	Yes	
Image sketch	Yes: on infrared only	
Sketch	From touchscreen	
METERLINK	Wireless connection (Bluetooth) to:	
	FLIR meters with METERLiNK	
Laser distance meter information	Yes Yes	
Area measurement information GPS	Yes Location data automatically added to every still image and first frame in video from built-in GPS	
Video recording in camera		
Radiometric infrared-video recording	RTRR (.csq)	
Non-radiometric infrared-video recording	H.264 to memory card	
Visual video recording	H.264 to memory card	





P/N: 82503-0201

Hadiometric infrared-video streaming (compressed) Over UVC Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) + H.264 (AVC) over RTSP (Wi-Fi) + MPEG4 over RTSP (Wi-Fi) Visual video streaming Yes Digital camera - Resolution 5 MP with LED light Focus Fixed Field of view 53" x 41" Video lamp Bullt-in LED light Laser pointer - Laser distance meter Activated by dedicated button Laser Class 2, 0.05–40 m (0.16–131 ft) ±1% of measured distance Data communication interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort METERLINK/Bluetooth Communication with headset and external sensors Vi-Fi Peer to peer (ad hoc) or infrastructure (network) Audio Microphone and speaker for voice annotation of images USB USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort Video connector type DisplayPort Operating frequency Bulleton + EDR/LE: 2402–2480 MHz WLAN 2.4 GHz: 2510–5350 MHz [05–5350 MHz [05–5350 MHz [05	Video streaming		
IP, MSX, visual, Picture in Picture) In L26 (400) Over MISP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi) Visual video streaming Yes Digital camera Integrated over MTSP (Wi-Fi) Resolution 5 MP with LED light Focus Fixed Field of view 53° × 41° Video lamp Built-in LED light Laser pointer Integrated button Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by dedicated button Laser Class 2, 0.05-40 m (0.16-131 ft.) ±1% of measured distance Data communication interfaces USB 2.0. Bluetooth, Wi-Fi, DisplayPort METERLNK/Bluetooth Communication with headset and external sensors Wi-Fi Peer to peer (ad hoc) or infrastructure (network) Audio Microphone and speaker for voice annotation of images USB USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort Video connector type DisplayPort over USB Type-C: Ratio Song song song song song song song song s	5	Over UVC	
Digital camera Image: Construct of the secution of the		MPEG4 over RTSP (Wi-Fi)	
Resolution5 MP with LED lightFocusFixedField of view53° x 41°Video lampBuilt-in LED lightLaser pointerILaser alignmentPosition is automatically displayed on the infrared imageLaser distance meterActivated by dedicated buttonLaserClass 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distanceData communication interfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortInterfacesUSB 2.0, Bluetooth, Wi-Fi, DisplayPortMETERLINK/BluetoothCommunication with headset and external sensorsWi-FiPeer to peer (ad hoc) or infrastructure (network)AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo outDisplayPort over USB Type-CRadioIOperating frequencyBluetooth + EDF/LE: 2402–2480 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 2.4 GHz: 5150–5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDF/LE: 10 dBm WLAN: <17 dBm	Visual video streaming	Yes	
Focus Fixed Field of view 53° x 41° Video lamp Built-in LED light Laser pointer International statement Laser distance meter Activated by dedicated button Laser Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance Data communication interfaces Interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort METERLINK/Bluetooth Communication with headset and external sensors Wi-Fi Peer to peer (ad hoc) or infrastructure (network) Audio Microphone and speaker for voice annotation of images USB USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort Video connector type Bluetooth + EDR/LE: 2402–2480 MHz VuLAN 2.4 GHz: 2412–2462 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 2.4 GHz: cite of the consol of indoor use only, see national regulations. RF output (EIRP) Bluetooth + EDR/LE: <10 dBm	Digital camera		
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Video lamp Built-in LED light Laser pointer Position is automatically displayed on the infrared image Laser distance meter Activated by dedicated button Laser distance meter Activated by dedicated button Laser distance meter Activated by dedicated button Laser Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance Data communication interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort METERLINK/Bluetooth Communication with headset and external sensors Wi-Fi Peer to peer (ad hoc) or infrastructure (network) Audio Microphone and speaker for voice annotation of images USB USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort Video connector type Bluetooth + EDP/LE: 2402–2480 MHz VLAN 2.4 GHz: 2412–2462 MHz WLAN 2.4 GHz: 5150–5350 MHz (DFS: only slave mode) Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations. RF output (EIRP) Bluetooth + EDP/LE: <10 dBm	Focus	Fixed	
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AudioMicrophone and speaker for voice annotation of imagesUSBUSB Type-C: data transfer/video/powerUSB standardUSB 2.0 High SpeedVideo outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioOperating frequencyBluetooth + EDR/LE: 2402–2480 MHzWLAN 2.4 GHz: 2412–2462 MHzWLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: <10 dBm WLAN: <17 dBm	METERLiNK/Bluetooth		
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Video outDisplayPortVideo connector typeDisplayPort over USB Type-CRadioBluetooth + EDR/LE: 2402-2480 MHzOperating frequencyBluetooth + EDR/LE: 2412-2462 MHzWLAN 2.4 GHz: 2412-2462 MHzWLAN 5 GHz: 5150-5350 MHz (DFS: only slave mode)Note that frequency band 5150-5350 MHz (DFS: only slave mode)Note that frequency band 5150-5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm	USB	USB Type-C: data transfer/video/power	
Video connector typeDisplayPort over USB Type-CRadioBluetooth + EDR/LE: 2402–2480 MHzOperating frequencyBluetooth + EDR/LE: 2412–2462 MHzWLAN 2.4 GHz: 2412–2462 MHzWLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBmAntennaIntegrated PIFA antenna (gain: maximum 1.4 dBi)Power systemRechargeable Li-ion batteryBattery typeRechargeable Li-ion batteryBattery operating time> 4 hours at 25°C (68°F) with typical useCharging systemIn camera (AC adapter or 12 V from a vehicle) or two-bay charger	USB standard	USB 2.0 High Speed	
RadioOperating frequencyBluetooth + EDR/LE: 2402–2480 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode) Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm	Video out	DisplayPort	
Operating frequencyBluetooth + EDR/LE: 2402–2480 MHzWLAN 2.4 GHz: 2412–2462 MHzWLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm	Video connector type	DisplayPort over USB Type-C	
WLAN 2.4 GHz: 2412–2462 MHzWLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm	Radio		
WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.RF output (EIRP)Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm	Operating frequency	Bluetooth + EDR/LE: 2402-2480 MHz	
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WLAN: < 17 dBm Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Rechargeable Li-ion battery Battery type Rechargeable Li-ion battery Battery voltage 3.6 V Battery operating time > 4 hours at 25°C (68°F) with typical use Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger			
Antenna Integrated PIFA antenna (gain: maximum 1.4 dBi) Power system Rechargeable Li-ion battery Battery type Rechargeable Li-ion battery Battery voltage 3.6 V Battery operating time > 4 hours at 25°C (68°F) with typical use Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger	RF output (EIRP)		
Power system Rechargeable Li-ion battery Battery type Rechargeable Li-ion battery Battery voltage 3.6 V Battery operating time > 4 hours at 25°C (68°F) with typical use Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger			
Battery type Rechargeable Li-ion battery Battery voltage 3.6 V Battery operating time > 4 hours at 25°C (68°F) with typical use Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger	Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)	
Battery voltage 3.6 V Battery operating time > 4 hours at 25°C (68°F) with typical use Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger	Power system		
Battery operating time > 4 hours at 25°C (68°F) with typical use Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger	Battery type	Rechargeable Li-ion battery	
Charging system In camera (AC adapter or 12 V from a vehicle) or two-bay charger	Battery voltage	3.6 V	
two-bay charger	Battery operating time	> 4 hours at 25°C (68°F) with typical use	
Charging time (using two-bay charger) 3.5 h to 90% capacity, on-screen indicator	Charging system		
	Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator	



P/N: 82503-0201

Power system		
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113° F)	
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)	
Power management	Automatic shut-down and sleep mode	
Environmental data		
Operating temperature range	-15 to +50°C (5-122°F)	
Storage temperature range	-40 to +70°C (-40 to 158°F)	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles	
EMC	 ETSI EN 301 489-1 (radio) ETSI EN 301 489-17 EN 61000-6-2 (immunity) EN 61000-6-3 (emission) FCC 47 CFR part 15 B, class B (emission) 	
Radio spectrum	 ETSI EN 300 328 ETSI EN 301 893 FCC 47 CFR part 15 C FCC 47 CFR part 15 E 	
Encapsulation	IP 54 (IEC 60529)	
Shock	25g (IEC 60068-2-27)	
Vibration	2g (IEC 60068-2-6)	
Safety	Camera: • IEC/EN 60950-1, IEC/EN 62368-1 Power supply: • IEC/EN 62368-1 • CSA/UL/KC/SAA/PSE 60950-1	
Physical data		
Weight (including battery)	1.4 kg (3.1 lb.)	
Size (L × W × H)	 Lens vertical: 164.3 × 201.3 × 84.1 mm (6.5 × 7.9 × 3.3 in.) Lens horisontal: 164.3 × 201.3 × 167.3 mm (6.5 × 7.9 × 6.6 in.) 	
Battery weight	195 g (6.89 oz.)	
Battery size (L \times W \times H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)	
Tripod mounting	UNC ¼"-20	
Housing material	PCABS with TPE, magnesium	
Color	Black	
Warranty and service		
Warranty	http://www.flir.com/warranty/	



P/N: 82503-0201

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Shipping information		
Packaging, type	Cardboard box	
Packaging, contents	 Accessory box I: Power supply for battery charger Power supply, 15 W/3 A Printed documentation SD card (8 GB) USB 2.0 A to USB Type-C cable USB Type-C to HDMI and PD adapter USB Type-C to USB Type-C cable (USB 2.0 standard) Accessory box II: Lens cap strap Lens cleaning cloth Neck strap Small eyecup Battery charger Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses) License card: FLIR Thermal Studio Pro (3 	
Packaging, weight	month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro (3 month subscription)	
0 0, 0	5.9 kg (13.0 lb.)	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)	
EAN-13	7332558025130	
UPC-12	845188019013	
Country of origin	Sweden	

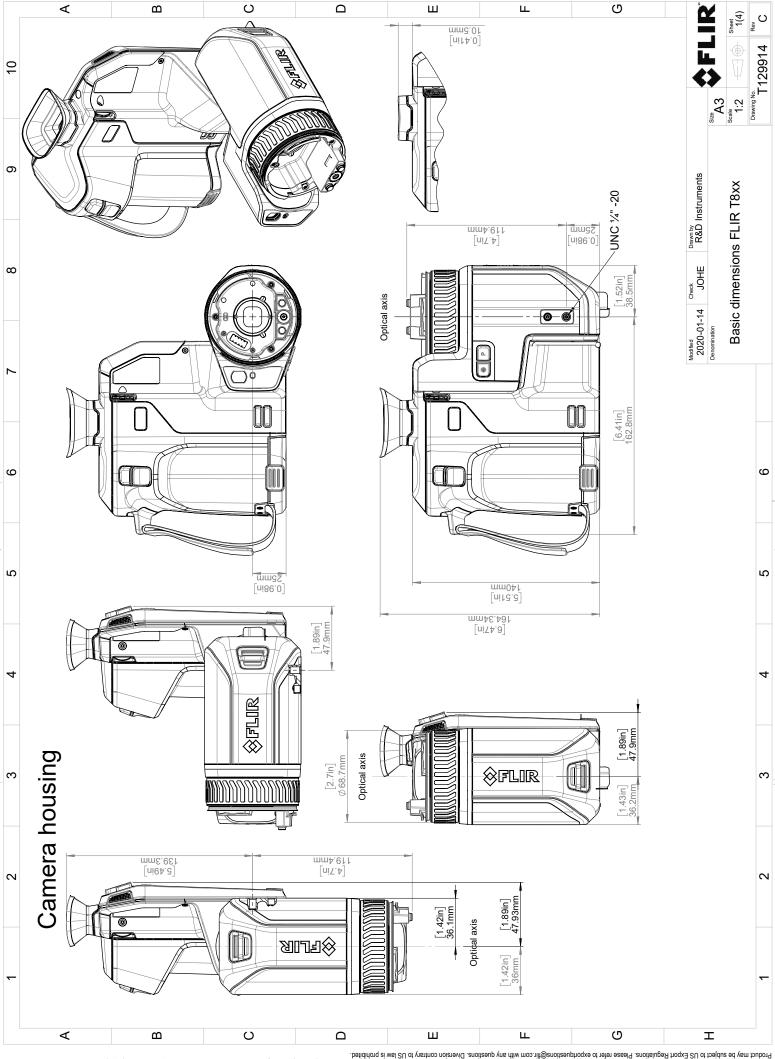
Supplies & accessories:

- T300238; Macro lens 2.0x with case
- T300095; IR lens, f=70 mm (6°) with case
- T131171ACC; Remote operation button
- T199300ACC; Battery
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T199610; Battery charger
- T300030; Option, No radio
- T911997; Tripod
- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T130531ACC; Large eyecup
- T300188; Hand strap and neck strap
- T850105; FLIR Inspection Route Camera Option
- T850111; Option, Dual streaming
- T130337ACC; Calibration target
- T911630ACC; Power supply for camera, 15 W/3 A
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911633ACC; Power supply for battery charger
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911706ACC; Car adapter 12 V
- T911845ACC; USB Type-C to HDMI and PD adapter
- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T300437ACC; Lens case
- T199589; IR lens, f=17 mm (24°) with case
- T199588; IR lens, f=29 mm (14°) with case

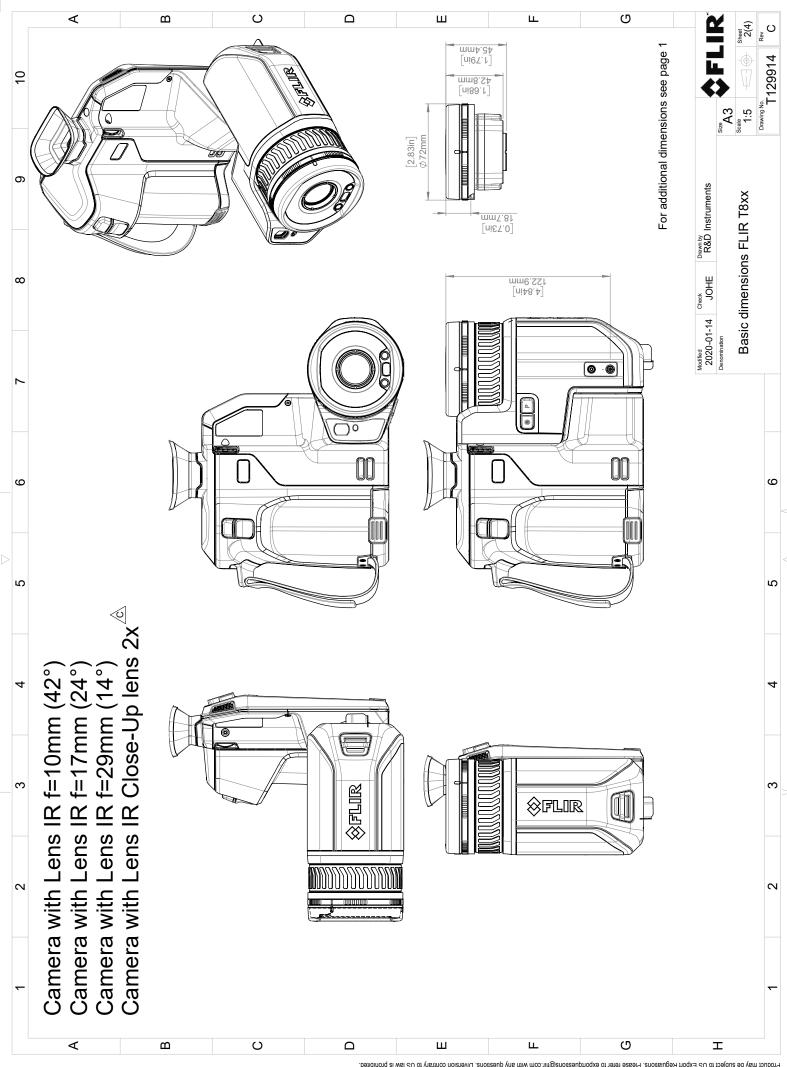


P/N: 82503-0201

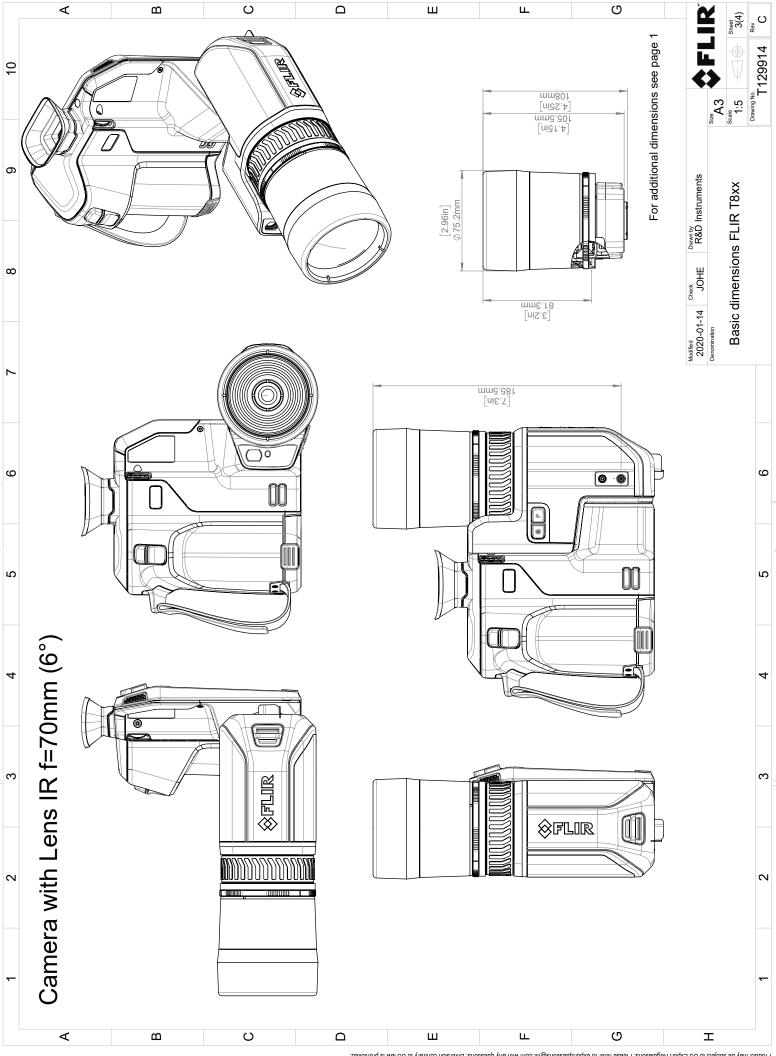
- T199590; IR lens, f=10 mm (42°) with case
- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300342; FLIR Screen-EST, Perpetual license
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- INST-EW-0155; Extended Warranty 1 Year for A3xxf, T540, T600/bx, T610, T840, T860
- INST-EWGM-0165; Premium Service Package for T540, T600/bx, T610, T840, T860
- INST-GM-0150; General Maintenance Package for T540, T6xx, T840, T860



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Täby, Sweden July 07, 2021

AQ320246

CE Declaration of Conformity – EU Declaration of Conformity

Product:

Name and address of the manufacturer:	FLIR Systems AB
	PO Box 7376
	SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR T5XX-, T8XX- and GF7X-series (Product Model Name FLIR-T8210). The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directives

Directive Directive	2012/19/EU 2011/65/EU	Waste electrical and electric equipment RoHS and 2015/830/EU (Phtalates)	
Directive	2014/53/EU	Radio Equipment	Directive (RED)
Standards			
Emission:	EN 61000-6-3/A1:2011		EMC – Generic standards
Immunity:	EN 61000-6-2:2005		Electromagnetic Compability Generic
	EN 301489-1:2016 v2.1.0		ERM – EMC for radio equipment
	EN 301489-17:2012 v2.2.1	1	ERM – EMC Wideband data
EMC Radio	ETSI EN 301 489-17 v3.2.0)	EMC for radio, broadband data
			transmission
RoHS:	EN 50581:2012		Technical documentation
Radio:	ETSI EN 300 328 v2.2.2		Harmonized EN covering essential
			requirements of the R&TTE Directive
	ETSI EN 301 893 v.2.1.1		5GHz WLAN
Safety:	IEC 62368-1:2014 Ed 2 and	-	Audio/video, information and
	62368-1:2014/AC:2015/A	11:2017	communication technology equipment,
			Part 1: Safety

FLIR Systems AB Quality Assurance

Solon de

Lea Dabiri Quality Manager

PO Box 7376, SE-187 15 Täby Sweden [T] +46 8 753 25 00 [F] +46 8 753 23 64 www.flir.com